

2-TUPLE FUZZY DELPHI DSS

HOME IMPORT ANNEX CODE SOURCE



A 2-TUPLE FUZZY LINGUISTIC DELPHI METHOD TO TEST BY CONSENSUS THE VALIDITY OF CONTENT OF A QUESTIONNAIRE



The 2-Tuples Fuzzy Delphi website is a tool for validation of questionnaires previous to use as a tool for data collection. It greatly help researches in the task of design and validate a data collection instrument such as an questionnaire. Prior its use, some properties must be guarantee, such as if it is valid for covering the construct or dimensions that it intends to evaluate. Thus, those researchers that want to know if that questionnaire is a good tool for data collection according with what it intends to measure, you should use this online tool.

The 2-Tuple Linguistic Fuzzy Delphi method is intended to be used with a panel of expert which assess a set of criteria regarding the validity of each item of the questionnaire. The process is iterative, accounts for consensus reaching between the experts, and the tools helps to visualize items with low rates or low consensus in order to guide the changes that enable a final solution: a consensual questionnaire to be apply in a research area.

This online solution is developed under PHP, HTML and CSS languages, thus is portable and easy to evolve and adapt to any particular situation. It is intended to be a tool to be use on every iteration of the method, by uploading a CSV file that incorporates the rates of every judge, over every criteria, over every item. Additionally, an expert weight can be incorporated to the computations. See the CSV format for more details regarding the input format sintax and significance.

The main output of this open tool, is a visualization of the questionnaire scoring results item by item, and overall, together with other additional data (item weight, average, stardar deviation, etc) that enables to reach the degree of consensus needed By the use of the interface, some parameters of the model may help to perform trim operations over the questionnaire.

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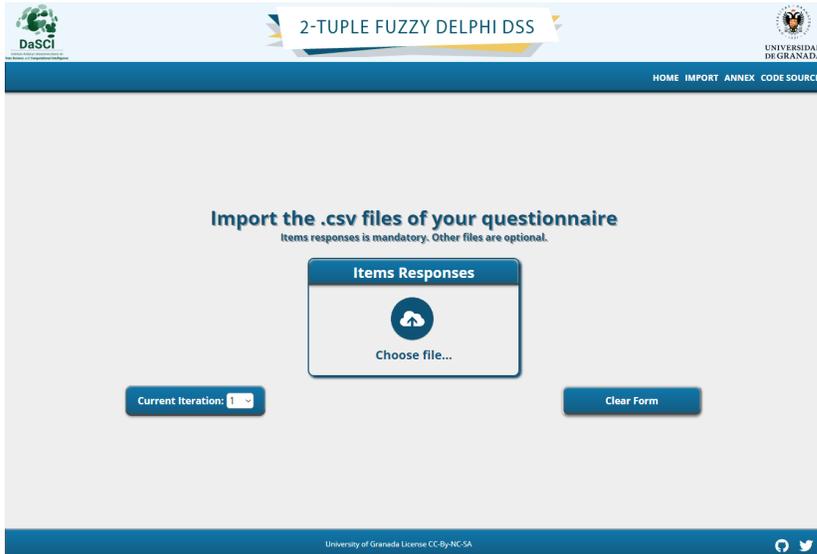
Welcome to the 2-tuple fuzzy portal Delphi DSS.

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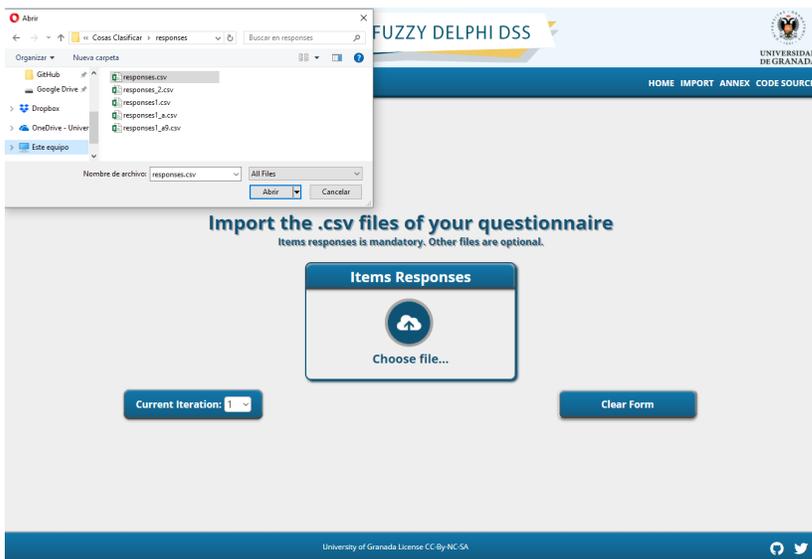
This document will serve as a guide for you to use this tool.

The page has a menu with the following options:

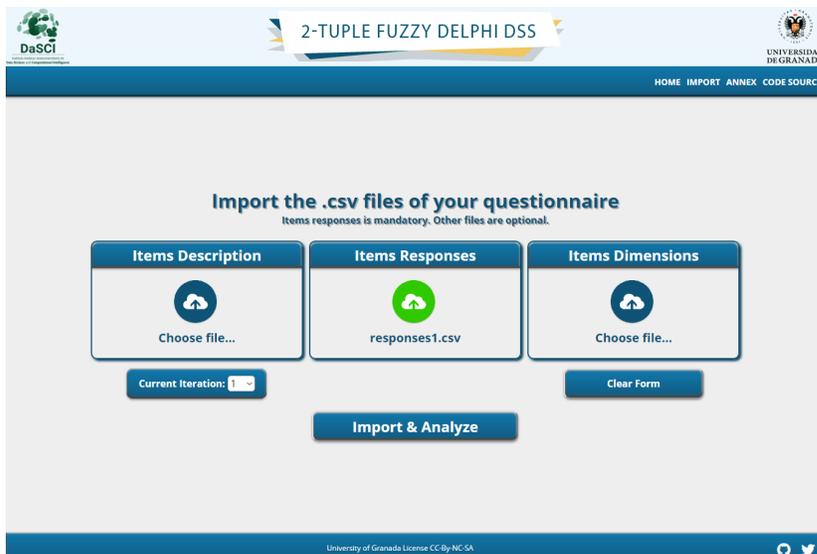
1. **IMPORT:** This section is where you will upload your files to be processed by the tool.
2. **ANNEX:** Here you will find test files and documents of interest about this tool.
3. **CODE SOURCE:** In this section you can access the Github port where the source code and information about this tool is located.



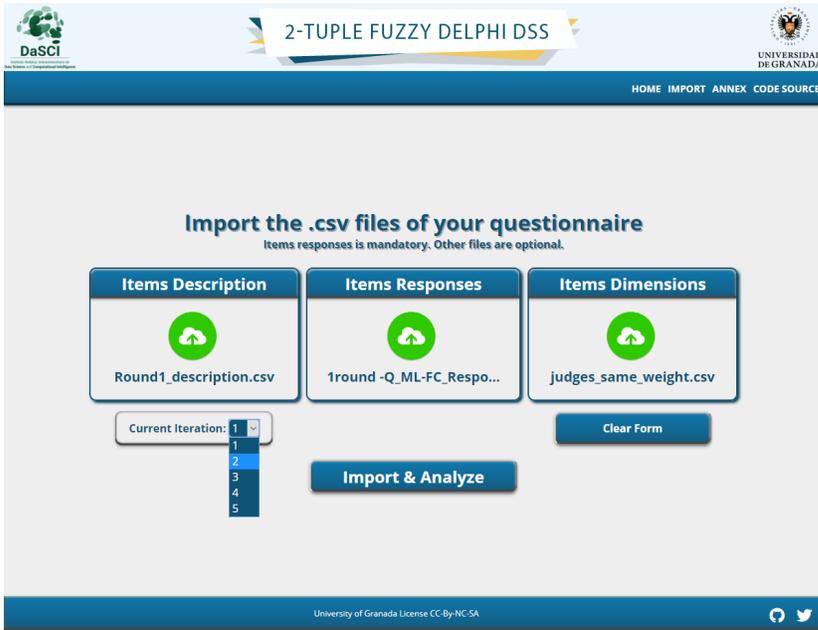
When you enter the import menu, a screen will appear with the file upload icon, left-click in it. The first file you will be prompted for will be the one it contains the Items Responses.



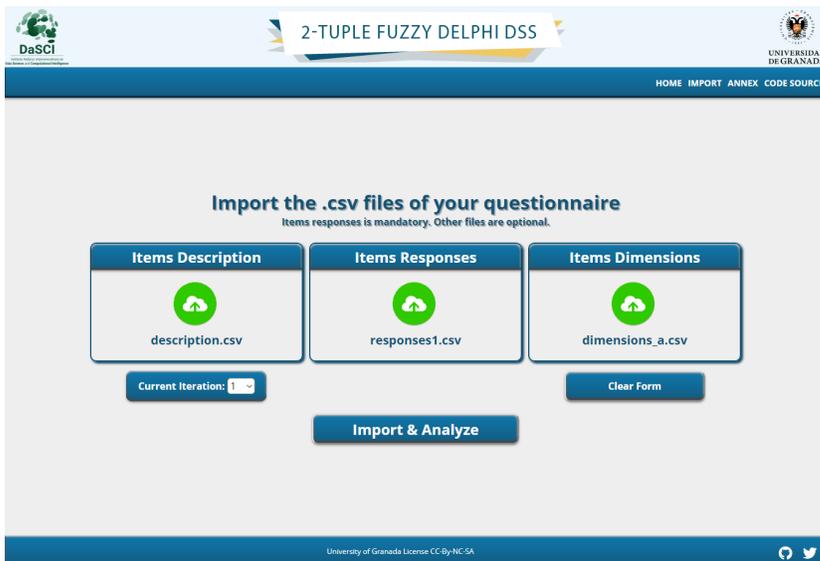
A window will appear where you will search and select the file containing the answers of the elements to be uploaded to the portal and then to be processed. Remember that the file to be uploaded to the portal is of the CSV (comma separated values) type, otherwise an error message will be displayed. Make sure that the first file you are uploading is the one containing the responses of the items



When the file has loaded successfully, two icons will appear to upload the files with the description of the elements and the dimensions of the elements. These files are optional. If you require more detailed information, it is suggested that you upload these files as they contain data that will complement the result generated by the tool.



If the files have been successfully uploaded, the icons will change to green. By default the current iteration value is 1, if the iteration number corresponding to your files is different, select the correct value from the drop-down list. Otherwise, leave the default value.



Once the files are loaded and the correct iteration number is selected, press the import and analyze button with the left mouse button. If you consider the file or any of the uploaded files to be incorrect, press the clear form button to remove the file(s) from the form and return to the first step and start over.

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2-TUPLE FUZZY DELPHI DSS

QUESTIONNAIRE TOTAL SCORE = $(s_0^7, -0.4)$

Num	Item	Collective Clarity	Collective Writing	Collective Presence	Collective Scale	Collective Relevance	Score	Consensus	Final Results
101	Las actividades planeadas por el profesorado a través de los videos aumentaron mi interés por los contenidos del curso. Escala Tipo A	$(s_0^7, -0.45)$	$(s_0^7, -0.44)$	$(s_0^7, -0.37)$	$(s_0^7, -0.22)$	0.975	$(s_0^7, 0.49)$	<input checked="" type="checkbox"/>	(Very Correct, 0.49)
102	La comunicación con mis compañeros a través de las actividades colaborativas aumentaron mi interés por los contenidos del curso. Escala a utilizar: Tipo A	$(s_0^7, -0.33)$	$(s_0^7, 0.48)$	$(s_0^7, 0.42)$	$(s_0^7, 0.34)$	0.971	$(s_0^7, 0.32)$	<input checked="" type="checkbox"/>	(Very Correct, 0.32)
El uso de videos me ha facilitado el									
Items	Results	$(s_0^7, -0.38)$	$(s_0^7, -0.46)$	$(s_0^7, -0.41)$	$(s_0^7, -0.34)$				

Showing 1 to 45 of 45 entries

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2-TUPLE FUZZY DELPHI DSS

QUESTIONNAIRE TOTAL SCORE = $(s_0^7, -0.4)$

- ALL INFORMATION
- COLLECTIVE CLARITY
- COLLECTIVE WRITING
- COLLECTIVE PRESENCE
- COLLECTIVE ANSWERING SCALE
- AVERAGE REVELANCE
- CONSENSUS

Num	Item	Collective Clarity	Collective Writing	Collective Presence	Collective Scale	Collective Relevance	Score	Consensus	Final Results
101	Las actividades planeadas por el profesorado a través de los videos aumentaron mi interés por los contenidos del curso. Escala Tipo A	$(s_0^7, -0.45)$	$(s_0^7, -0.44)$	$(s_0^7, -0.37)$	$(s_0^7, -0.22)$	0.975	$(s_0^7, 0.49)$	<input checked="" type="checkbox"/>	(Very Correct, 0.49)
102	La comunicación con mis compañeros a través de las actividades colaborativas aumentaron mi interés por los contenidos del curso. Escala a utilizar: Tipo A	$(s_0^7, -0.33)$	$(s_0^7, 0.48)$	$(s_0^7, 0.42)$	$(s_0^7, 0.34)$	0.971	$(s_0^7, 0.32)$	<input checked="" type="checkbox"/>	(Very Correct, 0.32)
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Items	Results	$(s_0^7, -0.38)$	$(s_0^7, -0.46)$	$(s_0^7, -0.41)$	$(s_0^7, -0.34)$				

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QUESTIONNAIRE TOTAL SCORE = $(s_0^7, -0.4)$

- VISUALIZATIONS OPTIONS
- TRIM TOOL
- SATISFIABLE CONSISTENCY

TRIM TOOL: VISUALIZES CROP ITEMS BELOW THE FOLLOWING LABEL

s₀⁷ s₁⁷ s₂⁷ s₃⁷ s₄⁷ s₅⁷ s₆⁷

Num	Item	Collective Clarity	Collective Writing	Collective Presence	Collective Scale	Collective Relevance	Score	Consensus	Final Results
101	Las actividades planeadas por el profesorado a través de los videos aumentaron mi interés por los contenidos del curso. Escala Tipo A	$(s_0^7, -0.45)$	$(s_0^7, -0.44)$	$(s_0^7, -0.37)$	$(s_0^7, -0.22)$	0.975	$(s_0^7, 0.49)$	<input checked="" type="checkbox"/>	(Very Correct, 0.49)
102	La comunicación con mis compañeros a través de las actividades colaborativas aumentaron mi interés por los contenidos del curso. Escala a utilizar: Tipo A	$(s_0^7, -0.33)$	$(s_0^7, 0.48)$	$(s_0^7, 0.42)$	$(s_0^7, 0.34)$	0.971	$(s_0^7, 0.32)$	<input checked="" type="checkbox"/>	(Very Correct, 0.32)
El uso de videos me ha facilitado el									
Items	Results	$(s_0^7, -0.38)$	$(s_0^7, -0.46)$	$(s_0^7, -0.41)$	$(s_0^7, -0.34)$				

Showing 1 to 45 of 45 entries

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SATISFIABLE CONSISTENCY LEVEL:

.75

QUESTIONNAIRE TOTAL SCORE = $(s_6^7, -0.4)$

Num	Item	Collective Clarity	Collective Writing	Collective Presence	Collective Scale	Collective Relevance	Score	Consensus	Final Results
f01	Las actividades planteadas por el profesorado a través de los videos aumentaron mi interés por los contenidos del curso. Escala Tipo A	$(s_4^7, -0.45)$	$(s_4^7, -0.44)$	$(s_4^7, -0.37)$	$(s_4^7, -0.22)$	0.975	$(s_5^7, 0.49)$	<input checked="" type="checkbox"/>	(Very Correct, 0.49)
f02	La comunicación con mis compañeros a través de las actividades colaborativas aumentaron mi interés por los contenidos del curso. Escala a utilizar: Tipo A	$(s_4^7, -0.33)$	$(s_4^7, 0.48)$	$(s_4^7, 0.42)$	$(s_4^7, 0.34)$	0.971	$(s_5^7, 0.32)$	<input checked="" type="checkbox"/>	(Very Correct, 0.32)
El uso de videos me ha facilitado									
Items	Results	$(s_4^7, -0.38)$	$(s_4^7, -0.46)$	$(s_4^7, -0.41)$	$(s_4^7, -0.34)$				

Showing 1 to 45 of 45 entries